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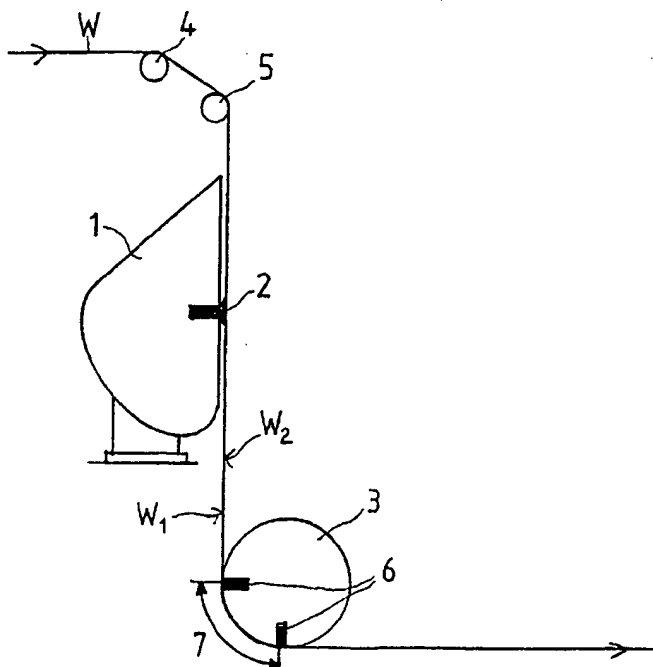
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(54) Title: METHOD AND APPARATUS IN THE SURFACE SIZING OF A PAPER OR BOARD WEB



(57) Abstract: The invention relates to a method and an apparatus in the surface sizing of a paper or board web. In the method according to the invention, surface size, such as a starch solution, is applied by means of an applicator device (1) to at least one side of the web (W) to be surface sized, and in which surface sizing is performed per one side of said web (W) in one or more stages. In connection with the application of surface size, a pressure effect is applied to the web (W) by subjecting the web (W) to an underpressure and/or to an overpressure such that, by means of said pressure effect, surface size is forced to penetrate into the web (W) into the pores of the web. Most advantageously, in the pores of the web (W) an underpressure is created that sucks surface size applied to the surface of the web from the surface of the web (W) into the pores in the inner layers. In that connection, surface size is applied to a first side (W1) of the web and a vacuum effect is applied to the opposite side, i.e. a second side (W2), of the web (W) to cause air to flow through the web (W) such that surface size moves from the first side (W1) of the web in the direction of the second

side (W2) of the web into the web (W). In a corresponding manner, both sides of the web (W) can be treated in successive stages.

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<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) IPC 7 D21H		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 850 673 A (NELSON S) 26 November 1974 (1974-11-26)	1-7, 21-25, 28
Y	column 11, line 11 - line 24 column 11, line 60 - line 62 figure 2	15
X	US 4 340 011 A (WAHREN DOUGLAS ET AL) 20 July 1982 (1982-07-20)	1, 2, 9-12, 21, 22, 26-28
Y	column 3, line 31 - line 34 column 4, line 10 - line 19 figure 1	15
Y	WO 03/004770 A (GROEN JOHAN ; LIPPONEN JUHA (FI); METSO PAPER INC (FI)) 16 January 2003 (2003-01-16) cited in the application claim 6	15
-/-		
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
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